



PTO: SB 08A (10-01)

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	08/963,368
				Filing Date	November 3, 1997
				First Named Inventor	NOLAN, GARRY P.
				Art Unit	1639
				Examiner Name	WESSENDORF, TERESA D.
Sheet	1	of	3	Attorney Docket Number	RIGL-004DIV

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
td		4,618,578		10-1986	Burke <i>et al.</i>	
		4,980,281		12-1990	Housey <i>et al.</i>	
		5,266,464		11-1993	Housey <i>et al.</i>	
		5,650,489		07-1997	Lam <i>et al.</i>	
		5,688,655		11-1997	Housey <i>et al.</i>	
		5,698,396		12-1997	Pfreundschuh	
		5,747,334		05-1998	Kay <i>et al.</i>	
		5,763,192		06-1998	Kauffman <i>et al.</i>	
		5,770,434		06-1998	Huse	
		5,814,476		09-1998	Kauffman <i>et al.</i>	
		5,817,483		10-1998	Kauffman <i>et al.</i>	
		5,824,514		10-1998	Kauffman <i>et al.</i>	
		5,840,479		11-1998	Little <i>et al.</i>	
		5,877,007		03-1999	Housey <i>et al.</i>	
		5,935,823		08-1999	Fowlkes <i>et al.</i>	
		5,955,275		09-1999	Kamb <i>et al.</i>	
		6,153,380		11-2000	Nolan <i>et al.</i>	
		6,194,544		02-2001	Huffman <i>et al.</i>	

[illegible]

Examiner Signature	T. Wiley	Date Considered	4/19/04
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Sheet 2 of 3

## Complete if Known

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## OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
TK		CWIRLA, S. <i>et al.</i> , "Peptides on Phage: A vast library of peptides for identifying ligands" PROC. NATL. ACAD. SCI. USA, Vol. 87, August 1990, pp. 6378-6382.	
		DUBE <i>et al.</i> , "Selection of new biologically active molecules from random nucleotide sequences." Gene Vol. 137, Aug 1993, pp. 41-47.	
		DUEÑAS, M. <i>et al.</i> , "Clonal Selection and Amplification of Phage Displayed Antibodies by Linking Antigen Recognition and Phage and Phage Replication", BIO/TECHNOLOGY, Vol. 12, Oct. 1994, pp. 999-1002.	
		FURKA, A. <i>et al.</i> , "General method for rapid synthesis of multi-component peptide mixtures", INT. J. PEPTIDE PROTEIN RES., 37, 1991 pp. 487-493.	
		GISSEL, B. <i>et al.</i> , "Identification of Avidin and Streptavidin Binding Motifs Among Peptides Selected from a Synthetic Peptide Library Consisting solely of D-Amino Acids", JOURNAL OF PEPTIDE SCIENCE, Vol. 1, 1995, pp. 217-226.	
		HOUGHTEN, R. <i>et al.</i> , "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery" NATURE, Vol. 354, 7 Nov. 1991, pp. 84-86.	
		KARTTUNEN <i>et al.</i> , Detection of rare antigen-presenting cells by the lacZ T-cell activation assay suggests an expression cloning strategy for T-cell antigens. PROC. NATL. ACAD. SCI. USA, Vol. 89, 1992, pp. 6020-6024.	
		KAUFFMAN, S. <i>et al.</i> , "The NK Model of Rugged Fitness Landscapes And Its Application to Maturation of the Immune Response" J. THEOR. BIOL., Vol. 141(2), 1989, pp. 211-245.	
		KAUFFMAN, S. <i>et al.</i> , "Toward a General Theory of Adaptive Walks on Rugged Landscapes", J. THEOR. BIOL. Vol 128(1), 1987, pp. 11-45.	
		LAM, K. <i>et al.</i> , "A new type of synthetic peptide library for identifying ligand-binding activity", NATURE Vol. 354, 7 Nov. 1991, pp. 82-84.	
		LONG, E. <i>et al.</i> , "Invariant Chain Prevents the HLA-DR Restricted Presentation of a Cytosolic Peptide", THE JOURNAL OF IMMUNOLOGY, 153, 1994, pp. 1487-1494.	
		LUND, A. <i>et al.</i> , "Increased cloning efficiency by temperature cycle ligation", NUCLEIC ACIDS RESEARCH, Vol. 24, No. 4, 1996, pp 800-801.	
		MALNATI, M. <i>et al.</i> , "Processing pathways for presentation of cytosolic antigen to MHC class II-restricted T cells", NATURE Vol. 357, 25 June 1992, pp. 702-704.	
		MILLER, A.D. <i>et al.</i> , "Improved Retroviral Vectors for Gene Transfer and Expression", BioTechniques, Vol. 7, No. 9, 1989, pp. 980-990.	
		MURPHY, A. <i>et al.</i> , "pLzd39: A new type of cDNA expression vector for low background, high efficiency directional cloning", NUCLEIC ACIDS RESEARCH, Vol. 19, No. 12, (1991), pp. 3403-3408.	

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T. Wessendorf

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TDL		SCHUMACHER, T <i>et al.</i> , "Synthetic peptide libraries in the determination of T cell epitopes and peptide binding specificity of class I molecules", EUR. J. IMMUNOL. (Germany), Vol. 22 (6), June 1992, pp. 1405-12.	
		SCOTT, J., "Discovering peptide ligands using epitope libraries", TIBS 17, (1992), pp. 241-245.	
		SEED, B. <i>et al.</i> , "Molecular cloning of the CD2 antigen, the T-cell erythrocyte receptor, by a rapid immunoselection procedure", PROC. NATL. ACAD. SCI. USA, Vol. 84, May 1987, pp. 3365-3369.	

Examiner Signature	T-D. [Signature]	Date Considered	4/19/04
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